



101141-21 Project.ST25.txt  
SEQUENCE LISTING

<110> Chan, Raquel

<120> Transcription factor gene induced by water deficit conditions ...

<130> 101141-21

<140> 10/520,033

<141> 2000-05-02

<160> 22

<170> PatentIn version 3.3

<210> 1

<211> 774

<212> DNA

<213> Helianthus annuus

<400> 1  
tcactagtac cataatattc acaaacacac acacctcaga aacgaagctt gcacataatg 60  
tctcttcaac aagtaccac aacagaaaca accaccagga agaaccgaaa cgaggggcgg 120  
aaacgattta ccgacaaaca aataagtttc ctagagtaca tgtttgagac acagtcgaga 180  
cccaggttaa ggatgaaaca ccagttggca cataaactcg ggcttcatcc tcgtcaagtg 240  
gcgatatggt tccagaacaa acgcgcgcga tcaaagtcga ggcagattga gcaagagtat 300  
aacgcgctaa agcataacta cgagacgctt gcgtctaat ccgagtctct aaagaaagag 360  
aatcaggccc tactcaatca ggtatggttg caaacttaca atgttgcatt caactattta 420  
agtagttttg aatttttgtg acaataaaga ttgacaaatg ttgtttgata attgattaac 480  
agttggaggt gctgagaaat gtagcagaaa agcatcaaga gaaaactagt agtagtggca 540  
gcggtgaaga atcgatgat cggtttacga actctccgga cgttatgttt ggtcaagaaa 600  
tgaatgttcc gttttgcgac ggttttgcgt actttgaaga aggaaacagt ttgttggaga 660  
ttgaagaaca actgccagac cctcaaaagt ggtgggagtt ctaaagagta aagaaggatg 720  
tagaagtagt agagtaaaaa ctaaaacata ccagatagtt ggtttacact ttgt 774

<210> 2

<211> 673

<212> DNA

<213> Helianthus annuum

<400> 2  
tcactagtac cataatattc acaaacacac acacctcaga aacgaagctt gcacataatg 60  
tctcttcaac aagtaccac aacagaaaca accaccagga agaaccgaaa cgaggggcgg 120  
aaacgattta ccgacaaaca aataagtttc ctagagtaca tgtttgagac acagtcgaga 180  
cccaggttaa ggatgaaaca ccagttggca cataaactcg ggcttcatcc tcgtcaagtg 240  
gcgatatggt tccagaacaa acgcgcgcga tcaaagtcga ggcagattga gcaagagtat 300

101141-21 Project.ST25.txt

aacgcgctaa agcataacta cgagacgctt gcgtctaaat ccgagtctct aaagaaagag	360
aatcaggccc tactcaatca gttggagggtg ctgagaaatg tagcagaaaa gcatcaagag	420
aaaactagta gtagtggcag cgggtgaagaa tcggatgatc ggtttacgaa ctctccggac	480
gttatgtttg gtcaagaaat gaatgttccg ttttgcgacg gttttgcgta ctttgaagaa	540
ggaaacagtt tggtggagat tgaagaacaa ctgccagacc ctcaaaagtgt gtgggagttc	600
taaagagtaa agaaggatgt agaagtagta gagtaaaaac taaaacatac cagatagttg	660
gtttacactt tgt	673

<210> 3  
 <211> 1221  
 <212> DNA  
 <213> Helianthus annuus

<220>  
 <221> promotor  
 <222> (1)..(1221)  
 <223> Large allele

<400> 3 gatccaattg gaccacctgg cacatcgtat cttatctctt ttgtcgtttc caacacacca	60
caacacacct acaaacgtgt caattcacac ttcaccaatt tcatttcctt ttagtcaatc	120
atattaaaag tagtagcccc cccccccatt tgttacctac catttccac ttttaataatc	180
accacgcta tgtccacttg tactttttgtt tgcacacaac tcttcccata aaatatcaaa	240
ccaaatTTTT ttagtggaa acaaaattcc ccaaatagaa tactaacgaa attcatcgca	300
tcagaataca ctcatctctg aacagtggcg aagcttgacg ttttcgacgg ggggtcggaa	360
aacgtatgta cccgaaattt ctatagaatc ggggggtcga aaacgtatat acccaaaatt	420
tctatacgaa aactacatat ataacactac tgagcaaaaa gttcgggggt tcgggcgccc	480
ctccggcccc cttcaaagct tcgccaatgt ctctgaaccg aagaaaaccc tcaactgtct	540
actagccaat gaatcctcac cagggaaccc ctcaactgtc ttactggact attggcgctt	600
ccaaatggac tacttgcgaa attcaccaca tcgggataca ctctgttact gcggtgaggt	660
aaaacccgct tggctcaagg atcgaaactag cgattgctgc ctactcgctt aatctcccat	720
catcaacagg tgccgccgaa acaaaatgct gggggcgagg gttgaacctt ggtccagtga	780
cgcacccatg aatTTTTTTT ctagggatgc gaacgagtgg ttttaaccata cttttaagag	840
gtgcgatcgg aaattttacc tataaaatac actaaaaaag ttccaagggt ccacccaccc	900
cttaacctaa gtccgccttt gtctggatca cgtgaaacat caggtctctc ctttaccagt	960
ccagctacga ctattgaca aaatatcaaa accatatgat tttgagtttt atctcaaccg	1020
aaagtgcacat catgcagag aatcgacata accaaaacgt gtaaacgtac aactcaccat	1080

tgcgttgaaa aggacaaaac aggtaggatt cttgtcaaat tcaacgcgta cacctgtgct 1140  
 tcattctaaac cccatacttt aagaaccttt ataaagacca ctactatat atacacatat 1200  
 ataatatcac ttatcaaacc c 1221

<210> 4  
 <211> 28  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Designed oligonucleotide based on promotor and having Hind III site

<400> 4  
 gcgaagcttg atgcgaacga gtggttta 28

<210> 5  
 <211> 28  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Designed oligonucleotide based on the promoter and having Sal I site

<400> 5  
 gcggtcgaca cctggcacat cgtatctt 28

<210> 6  
 <211> 27  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Designed oligonucleotide based on the promoter and having Bam HI site

<400> 6  
 cgcggtccg agggtttgat aagtgat 27

<210> 7  
 <211> 27  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Designed oligonucleotide based on the promoter and having Hind III site

<400> 7  
 cccaagctta acctaagtcc gcctttg 27

<210> 8  
 <211> 27  
 <212> DNA  
 <213> Artificial Sequence

<220>

<223> Designed oligonucleotide based on the 5' promotor

<400> 8

ggcaagctta tctcaaccga aagtgac

27

<210> 9

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed oligonucleotide based on the 5' promotor

<400> 9

atttcgcaag tagtccatt

19

<210> 10

<211> 1015

<212> DNA

<213> Helianthus annuum

<400> 10

gatccaattg gaccacctgg cacatcgat cttatctctt ttgtcgtttc caacacacca 60

caacacacct acaaacgtgt caattcacac ttcaccaatt tcatttcctt ttagtcaatc 120

atattaaaag tagtagcccc caccgccatt tggtacctac catttcccac ttaataatc 180

accacgcta tgtccacttg tacttttgtt tgcacacaac tcttcccata aaatatcaaa 240

ccaaattttt ttaaatggaa acaaaatact tcaaatgcac tattggtgaa attcaccaca 300

tcagaatata cccgtctcta ctcatctact ggccaacgaa tcttcacggg ggaaaccctc 360

actcgtctac tgggactact ggcgcttcaa aatggactac tgacaaaatt caccacatcg 420

ggatacactt gtctactgct gtgaggtaaa atccgccgct cagctcaatg atcgaactag 480

cgatcgccac ccactcacct tgtctcccat catcaccagg tgccgcaaaa acaaaatggt 540

gggggcgagg attgaacctt ggtccagtgg cgcacccatg aatttttttt ctagggatgc 600

gaacgagtga ttaaacata cttttaagag gtgcatcgaa aaattttacc tataaaatat 660

actaaaaaaaa tttcaagggt ccgcccaccc accccttaac ctaagtccgc ctctgcctgg 720

atcacgtgaa acatcagggt tctctcttac cagttcacct acaactcatt gacaaaatat 780

caaaaccata tgattttgag ttttatctca accgaaagt acatcatgac agagaatcga 840

cataacaaa acgtgtaaac gtacaactca ccattgcgtt gaaaaggaca aaacaggtag 900

gattcttgct aaattcaacg cgtacacctg tgcttcatct aaacccata ctttaagaac 960

ctttataaag accactcact atatatacac atatataata tcacttatca aaccc 1015

<210> 11

<211> 28

<212> DNA

<213> Artificial Sequence

<220>  
 <223> Designed oligonucleotide that matches nucleotides 81-100 of the  
 Hahb-4 cDNA sequence and having Bam HI site

<400> 11  
 ggcggatcca acagaaacaa ccaccagg 28

<210> 12  
 <211> 29  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Designed oligonucleotide for cloning 5' cDNA and having Bam HI  
 site

<400> 12  
 ggcggatccc ctggtggttg tttctgttg 29

<210> 13  
 <211> 34  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Oligonucleotide based on 5' cDNA and having Xho I site

<400> 13  
 gaggactcga gctcaagttt tttttttttt tttt 34

<210> 14  
 <211> 18  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Oligonucleotide based on 5' cDNA and having Xho I site

<400> 14  
 gaggactcga gctcaagc 18

<210> 15  
 <211> 29  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Designed oligonucleotide based on the promotor and having Eco RI  
 site

<400> 15  
 gccgaattca gattgagcaa gagtataac 29

<210> 16  
 <211> 19  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Designed oligonucleotide based on the promotor  
 <400> 16  
 acctttataa agaccactc 19

<210> 17  
 <211> 19  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Designed oligonucleotide based on the promotor  
 <400> 17  
 acgcaatggt gagttgtac 19

<210> 18  
 <211> 24  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> oligonucleotide to DNA-binding assays  
 <400> 18  
 aattcagatc tcaataattg agag 24

<210> 19  
 <211> 24  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> oligonucleotide to DNA-binding assays  
 <400> 19  
 gatcctctca attattgaga tctg 24

<210> 20  
 <211> 30  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> oligonucleotide having Bam HI site  
 <400> 20  
 gcgggatcca ccatgtctct tcaacaagta 30

<210> 21  
 <211> 30  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> oligonucleotide having Sac I site

<400> 21  
gccgagctct tagaactcca accacttttg 30

<210> 22  
<211> 27  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> oligonucleotide having Bam HI site

<400> 22  
ggcggatccg tctcccagtt gttcttc 27